

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number

09/513,768

Filing Date

2/25/2000

First Named Inventor

Mills

Group Art Unit

2881

Examiner Name

Wells

Sheet

1

of

3

Attorney Docket Number

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AK		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	
		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.	
		R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.	
		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.	
		R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.	
		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.	
		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17 th Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.	
AK		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.	


Examiner
Signature

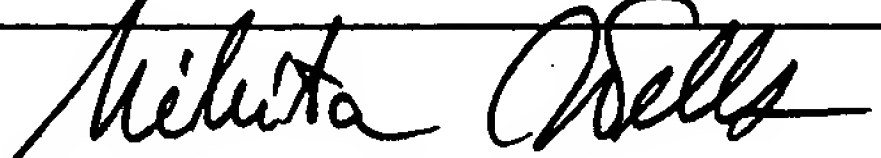
Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/513,768
				Filing Date	2/25/2000
				First Named Inventor	Mills
				Group Art Unit	2881
				Examiner Name	Wells
Sheet	2	of	3	Attorney Docket Number	





OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted	
		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted	
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.	
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.	
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.	
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.	
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.	
		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.	

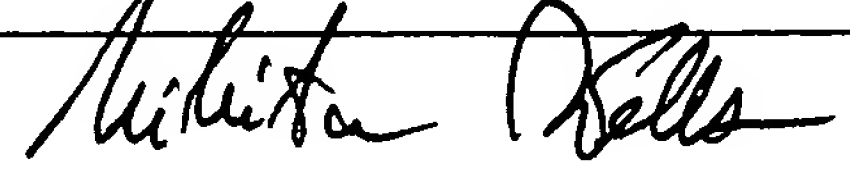
Examiner Signature		Date Considered	July 8, 2002
-----------------------	---	--------------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/513,768
				Filing Date	2/25/2000
				First Named Inventor	Mills
				Group Art Unit	2881
				Examiner Name	Wells
Sheet	3	of	3	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.		
		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.		
		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.		
		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.		
		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.		
		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, <i>Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.		
		Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation."		
		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com.		

Examiner Signature		Date Considered	July 8, 2002
--------------------	---	-----------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



#12

PTO/SB/08B (Modified)

#9

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/513,768
				Filing Date	February 25, 2000
				First Named Inventor	Mills
				Group Art Unit	2881
				Examiner Name	Wells
Sheet	1	of	3	Attorney Docket Number	62-226-ION

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KS		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
KS		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.	
		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.	
		Evans, et. al. "XPS/ESCA Results." CE & A Number 44545, Nov 1994.	
		Fuchs and Peres. "Quantum Theory Needs No 'Interpretation'." <i>Physics Today</i> , March 2000, p. 70.	
		Gernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc.	
KS		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.	
KS		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	

Examiner Signature	<i>W. Wells</i>	Date Considered	July 8, 2002
--------------------	-----------------	-----------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (Modified)

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Sheet	2	of	3	Attorney Docket Number	62-226-ION
-------	---	----	---	------------------------	------------

Application Number	09/513,768
Filing Date	February 25, 2000
First Named Inventor	Mills
Group Art Unit	2881
Examiner Name	Wells

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JS		Jansson. "Hydrocatalysis:: A New Energy Paradigm for the 21 st Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	
JS		Karaplu and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567.	
		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
		Kolos, et. al. "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 41, No 12, Dec 1964, pp. 3663-3673.	
		Kolos, et. al. "Accurate Electronic Wave Functions for the H ₂ Molecule*." <i>Reviews of Modern Physics</i> , Vol 32, No 2, April 1960, pp. 219-232.	
		Kolos, et. al. "Improved Theoretical Ground-State Energy of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 49, No 1, July 1968, pp. 404-410.	
		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
		Mills. "The Hydrogen Atom Revisited." <i>International Journal of Hydrogen Energy</i> , Vol 25, 2000, pp. 1171-1183.	
JS		Mills. "Novel inorganic hydride." <i>International Journal of Hydrogen Energy</i> , Vol 25, 2000, pp. 669-683.	
JS		Park, Robert L. "Perpetual Motion: Still Going Around." <i>Washington Post</i> , January 12, 2000, pg H03.	

Examiner Signature	<i>Walter Wells</i>	Date Considered	<i>July 8, 2002</i>
--------------------	---------------------	-----------------	---------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (Modified)

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	09/513,768
Filing Date	February 25, 2000
First Named Inventor	Mills
Group Art Unit	2881
Examiner Name	Wells

Sheet 3 of 3

Attorney Docket Number 62-226-ION

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.	
N		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.	
		Popov. "Electrochemical Characterization of BlackLight Power, Inc. MH as Electrodes for Li-ion Batteries." Department of Chemical Engineering University of South Carolina, Feb 2000.	
		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
V		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
W		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	

Examiner Signature	<i>Richard Wells</i>	Date Considered	<i>July 8, 2002</i>
-----------------------	----------------------	--------------------	---------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/513,768
				Filing Date	February 25, 2000
				First Named Inventor	Mills
				Group Art Unit	2881
				Examiner Name	Wells
Sheet	1	of	2	Attorney Docket Number	62-226-ION

[illegible][illegible]

Examiner Signature	<i>Wanda Wells</i>	Date Considered	<i>July 8, 2002</i>
-----------------------	--------------------	--------------------	---------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

1 4 2002
PATENT & TRADEMARK OFFICE

PTO/SB/08B (Modified)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/513,768
				Filing Date	February 25, 2000
				First Named Inventor	Mills
				Group Art Unit	2881
				Examiner Name	Wells
Sheet	2	of	2	Attorney Docket Number	62-226-ION

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AW		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.	
AW		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
AW		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
AW		Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993.	
AW		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731.	

Examiner Signature	<i>William Wells</i>	Date Considered	<i>July 8, 2002</i>
--------------------	----------------------	-----------------	---------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.